

HISTORIC AMERICAN ENGINEERING RECORD

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HAER
ALA
45-HUVI.V
7C-

MARSHALL SPACE FLIGHT CENTER,
SATURN V DYNAMIC TEST FACILITY
(Structural Test Facility)
(Marshall Space Flight Center,
Building Number 4550)
Redstone Arsenal
East Test Area
Huntsville Vicinity
Madison County
Alabama

HAER No. AL-129-C

Photographs Taken By Jet Lowe, Summer 1995

- AL-129-C-1 VIEW LOOKING NORTHEAST AT THE SOUTH ELEVATION OF THE SATURN V STRUCTURAL TEST FACILITY.
- AL-129-C-2 VIEW LOOKING SOUTH AT THE SATURN V (BLDG. 4550) AND SATURN I (BLDG. 4557) STRUCTURAL TEST FACILITIES, SATURN V TEST FACILITY IS IN THE FOREGROUND RIGHT. THE SATURN I TEST FACILITY IS IN THE BACKGROUND CENTER.
- AL-129-C-3 GENERAL VIEW OF THE NORTH SECTION OF THE EAST TEST AREA. THE SATURN V TEST FACILITY (BLDG. 4550) IS TO THE LEFT IN THE PHOTO, THE SATURN I TEST FACILITY (BLDG. 4557) IS IN THE CENTER, THE COLD CALIBRATION TEST STAND (BLDG. 4588) IS THE SHORT STEEL FRAMED STRUCTURE TO THE RIGHT IN THE PHOTO AND THE TURBO PUMP / HIGH VOLUME FLOW FACILITY (BLDG. 4548) IS THE TALL STEEL FRAMED STRUCTURE IN THE RIGHT SIDE OF THE PHOTOGRAPHIC IMAGE.

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Jet Lowe, Photographer, June 1996

AL-129-C-4 VIEW LOOKING NORTH, FROM LEFT TO RIGHT: SATURN V DYNAMIC TEST FACILITY, SATURN I DYNAMIC TEST FACILITY BEING DISMANTLED IN FOREGROUND, COLD CALIBRATION BLOCKHOUSE, AND COLD CALIBRATION TEST STAND.

AL-129-C-5 SATURN 1 DYNAMIC TEST TOWER 1½ HOURS PRIOR TO IT BEING TORN DOWN.

Historic Photographs AL-129-C-6 through AL-129-C-7: Date, Photographer and the source of the photographs, if known, are noted in the captions.

AL-129-C-6 VIEW LOOKING NORTH AT THE SATURN I DYNAMIC TEST STAND. THE VIEW IS SHOWING THE UPPER STAGE BEING ADDED TO THE SATURN I BOOSTER FOR A SHAKER TEST TO SIMULATE AND ASSESS THE EFFECT OF BOOSTER VIBRATIONS ON THE UPPER STAGES. JUNE 1961, MSFC PHOTO LAB.

AL-129-C-7 VIEW LOOKING NORTHWEST AT THE SATURN I DYNAMIC TEST STAND. VIEW IS SHOWING A SATURN I BOOSTER STAGE BEING HOISTED INTO POSITION TO BE LOADED INTO THE TEST STAND. JUNE 1965, MSFC PHOTO LAB.

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James W. Rosenthal, photographer, 2007

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AL-129-C-9	Contextual site view from north
AL-129-C-10	Contextual site view from southwest
AL-129-C-11	Contextual site view from east
AL-129-C-12	Perspective view from east
AL-129-C-13	Perspective view from south
AL-129-C-14	Perspective view from west (controlled distortion)
AL-129-C-15	View of building #4551, test stand support building, from west
AL-129-C-16	View of electrical panels in building # 4551
AL-129-C-17	View of first level, north access, from west. Hoist motors for 200-ton derrick with "American" label in mid-ground right of center.
AL-129-C-18	View of 175 ton hoist-house from northeast. Hoist operator's cab is in foreground center.
AL-129-C-19	View of first level from north showing interstitial structural columns for the Shuttle assemble configuration.

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AL-129-C-20	View of first level from east looking at the central bay. Interstitial structure is in the foreground center, main structure is in background left and right of view.
AL-129-C-21	View of northwest corner column base
AL-129-C-22	View from second level looking down on embedded weld strips and plugged, threaded anchors in the foundation slab. These were put in place to assist in adapting to future configurations of the test stand.
AL-129-C-23	Close up view of first level plugged, threaded anchors and weld strips.
AL-129-C-24	View of first level, east side column base and cross-brace, gusseted connections.
AL-129-C-25	View of first level, southwest stairs to elevator vestibule.
AL-129-C-26	View from second floor platform looking up at subsequent platforms. Note the Shuttle assembly outlined by the platform edges.
AL-129-C-27	View from west of the capture base of the drop tube on the north side of the test stand.
AL-129-C-28	View of hydraulic pumps on southwest side of first level for the hydrodynamic supports.
AL-129-C-29	Interior view of 175 ton hoist house looking at the exterior casing for the wire rope spools.
AL-129-C-30	Oblique view of 175 ton hoist motor.
AL-129-C-31	Interior view of 175 ton hoist operator's cab.
AL-129-C-32	View of parking (resting) frame that supported the Shuttle assembly when the hydrodynamic supports were not engaged (removed from structure).
AL-129-C-33	View of vehicle support truss (removed from structure)
AL-129-C-34	View of hydrodynamic support cylinders, removed from structure and relocated for reconditioning to return them to service.
AL-129-C-35	Interior view of north bay doors from south.

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AL-129-C-36	View of fourth level platform from north. Note the outline of the Shuttle cargo bay and wing formed by the edge of the platforms.
AL-129-C-37	View from west of the outside of the fourth level control room.
AL-129-C-38	View from north of the interior of the sixth level control room.
AL-129-C-39	View from south of the interior of the tenth level control room
AL-129-C-40	Detail view of fourth level platform winch used to lift platform segments away from the Shuttle assembly during testing.
AL-129-C-41	View looking down from the ninth level showing the south flight of stairs.
AL-129-C-42	View from fifteenth level, east platform, looking down
AL-129-C-43	Elevation view of east wall from fifteenth level, west platform. Two hoisting supports are nested on the test stand structure in the background center and foreground right.
AL-129-C-44	Perspective view of fifteenth level southeast platform, from northwest
AL-129-C-45	Detail view of hoisting support on fifteenth level
AL-129-C-46	Detail view of intercom call box on fifteenth level, east platform
AL-129-C-47	View of the top of the micro-gravity drop tube located on fifteenth level
AL-129-C-48	Interior view of fifteenth level control room
AL-129-C-49	Detail view of the Drag Shield Capsule for the Zero Gravity Drop Tower
AL-129-C-50	View of the 175-ton derrick's bull wheel located on the ninth level, northeast corner
AL-129-C-51	View looking north west showing the boom, top of the center mast and boom angle reeving of the 175-ton derrick. Note in the background of the view, just above the center mast is the F-1 Static-Test Stand used for test firing the Saturn V engines and subsequent program's engine testing. Also in the background center is the Redstone Static Test Stand (center right) and it's cold calibration tower (center left).

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AL-129-C-52	View of 200-ton derrick interior support beneath it's bull wheel and mast centerline from from southeast.
AL-129-C-53	View of moveable roof panels and the 200-ton derrick boom from northwest.
AL-129-C-54	View of the 200-ton derrick from west showing the center mast, one stiff leg, the boom and the boom angle reeving.
AL-129-C-55	View of the 200-ton derrick from east showing the boom on it's rest and both the 200 -ton hoist and the 40-ton hoist ant their respective block and tackle.
AL-129-C-56	Detail view of the 200-ton derrick from south showing the 200-ton hoist and its sheaves and reeving.
AL-129-C-57	Overall view of movable roof panels and the 200-ton derrick from east.

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James W. Rosenthal, photographer, 2007

AL-129-C-58 (CT)	Contextual view of the test stand from southwest
AL-129-C-59 (CT)	Contextual view of the test stand from east

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Jet Lowe, photographer, August 2009

AL-129-C-60

8" x 10" Large-format view looking south at the dynamic test
stand showing the roof panels removed and the access door
lowered.